

#16 6/15/29 The Total

PATENT ATTORNEY DOCKET NUMBER: 04585/00200R

Certificate of Mailing: Date of Deposit: _____June 3, 1999

I hereby certify under 37 C.F.R. § 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231.

Colleen Coyne

Printed name of person mailing correspondence

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Signature of person mailing correspondence

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Andrew Goodearl et al.

Art Unit:

1645

Serial No.:

08/734,592

Examiner:

S. Gucker

Filed:

October 22, 1996

Title:

GLIAL MITOGENIC FACTORS, THEIR PREPARATION AND USE

Assistant Commissioner For Patents Washington, D.C. 20231

STATEMENT UNDER 37 CFR §1.825

In reply to the Notice to Comply mailed March 3, 1999 and as required by 37 C.F.R. § 1.825(a), enclosed is an amended sequence listing consisting of 74 sheets to be inserted at the end of the application.

The amendments we made to correct typographical errors as required by the Examiner in the communication mailed March 3, 1999. I hereby submit that the substitute sheets contain no new matter.

As required by 37 C.F.R. § 1.825(b), enclosed is a diskette containing a copy of the sequence listing in computer readable form including all previously submitted data with the amendments incorporated therein. The contents of the computer readable form are the same as the contents of the paper sheets.

If there are any charges, or any credits, please apply them to Deposit Account No. 03-2095.

Respectfully submitted,

Date:

Kristma Bieker Bra

Reg. No. 39.109

Clark & Elbing LLP

176 Federal Street Boston, MA 02110

Telephone: 617-428-0200 Facsimile: 617-428-7045

\\Ceserver\documents\04585\04585.00200R Statement under 37 CFR.wpd

Application No.: 08/734,592

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

X	1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.			
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).			
	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).			
X	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."			
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).			
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).			
	7. Other:			
X	An initial or <u>substitute</u> computer readable form (CRF) copy of the "Sequence Listing".			
X	An initial or <u>substitute</u> paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.			
X	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).			
For questions regarding compliance to these requirements, please contact:				
Fo	r Rules Interpretation, call (703) 308-4216 r CRF Submission Help, call (703) 308-4212 r Patentln software help, call (703) 308-6856			

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

5. Gurger

JUN 0 7 1999

1645

PAGE: 1

RAW SEQUENCE LIST G PATENT APPLICATION US/08/734,592 DATE: 01/25/1999 TIME: 17:10:33

Input Set: H734592.RAW

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

Corrected Diskette Needed

```
1
     <110> GOODEARL, ANDREW
2
           STROOBANT, PAUL
           MINGHETTI, LUISA
 3
 4
           WATERFIELD, MICHAEL
           MARCHIONNI, MARK
 5
 6
           CHEN, MARIO S.
 7
           HILES, IAN
     <120> GLIAL MITOGENIC FACTORS, THEIR
 8
 9
           PREPARATION AND USE
     <130> 04585/00200R
10
     <140> US/08/734,592
11
     <141> 1996-10-22
12
13
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14
15
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17
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18
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22
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     <150> 07/863,703
24
     <151> 1992-04-03
25
     <160> 192
26
     <170> FastSEQ for Windows Version 3.0
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.

ERRORED SEQUENCES FOLLOW

,		
	27	<210> 136
E>	28	<211×559 56/ rhow (rept page)
	29	<212> DNA
•	30	<213> Bos taurus
	31	<220>
	. 32	<221> CDS
	33	<222> (460)(561)
	34	<223> N in position 214 is unknown.
	35	<220>
	36	<221> variation
	37	<222> (560)(560)
	38	<223> N in position 560 varies.
	39	<220>

PAGE: 2 RAW SEQUENCE LISTING DATE: 01/25/1999 PATENT APPLICATION US/08/734,592 TIME: 17:10:33

Input Set: H734592.RAW

```
<221> variation
       40
            <222> (561)...(561)
       41
            <223> N in position 561 varies.
       42
       43
            <220>
            <221> variation
       44
            <222> (34)...(34)
       45
            <223> Xaa in position 34 is Ala.
       46
            <400> 136
       47
       48
                  agtttccccc cccaacttgt cggaactctg ggctcgcgcg cagggcagga gcggagcggc
                                                                                         60
       49
                  ggcggctgcc caggcgatgc gagcgcgggc cggacggtaa tcgcctctcc ctcctcgggc
                                                                                        120
       50
                  tgcgagcgcg ccggaccgaq gcagcgacag gagcggaccg cggcgggaac cgaggactcc
                                                                                        180
 -> UK 51
                  ccageggege gecageagga gecaeeegg gagnegtgeg acegggaegg agegeeege
                                                                                        240
       52
                  agteccaggt ggeceggace geaegttgeg teccegeget eccegeegge gacaggagae
                                                                                        300
                  getececece acgeogoge egecteggee eggtegetgg eccgecteca etceggggae
       53
                                                                                        3.60
       54
                  aaacttttcc cgaagcegat cecageeete ggacecaaac ttgtegegeg tegeettege
                                                                                        420
       55
                  cgggagccgt ccgcgcagag cgtgcacttc tcgggcgag atg tcg gag cgc aga
                                                                                        474
                                                             Met Ser Glu Arg Arg
       56
       57
                                                                                        522
       58
                  .59
                  Glu Gly Lys Gly Lys Gly Lys Gly Lys Lys Asp Arg Gly Ser Gly
       60
                                   10
                                                                                        561/-
       61
                  aag aag ccc gtg ccc gcg gct ggc ggc ccg agc cca gnn
W-->
       62
                  Lys Lys Pro Val Pro Ala Ala Gly Gly Pro Ser Pro Xaa
       63
            <210> 138
       64
            <211×178 /79 plous
       65
E-->
            <212> DNA
       66
       67
            <213> Bos taurus
       68
            <220>
       69
            <221> CDS
       70
            <222> (3)...(179)
            <221> variation
       71
            <222> (179)...(179)
       72
       73
            <223> N in position 179 varies.
       74
            <220>
       75
            <221> variation
       76
            <222> (59)...(59)
       77
            <223> Xaa in position 59 is Gly.
            <400> 138
       78
       79
                  cc ttg cct ccc cgc ttg aaa gag atg aag agt cag gag tct gtg gca
                                                                                         47
                     Leu Pro Pro Arg Leu Lys Glu Met Lys Ser Gln Glu Ser Val Ala
       80
       81
                      1
                  ggt tcc aaa cta gtg ctt cgg tgc gag acc agt tct gaa tac tcc tct
       82
                                                                                         95
                  Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser Ser
       83
       84
                                   20
       85
                  ctc aag ttc aag tgg ttc aag aat ggg agt gaa tta agc cga aag aac
                                                                                        143
       86
                  Leu Lys Phe Lys Trp Phe Lys Asn Gly Ser Glu Leu Ser Arg Lys Asn
       87
                                                   40
                                                                                        179 /-
       88
                  aaa cca caa aac atc aag ata cag aaa agg ccg ggn
```



PAGE: 3 RAW SEQUENCE LISTING

PATENT APPLICATION US/08/734,592

DATE: 01/25/1999 TIME: 17:10:33

Input Set: H734592.RAW

	89 90	Lys Pro Gln Asn Ile Lys Ile Gln Lys Arg Pro Xaa 50 55	
	91	<210> 139 , /	
->	92	<211×122 /24 shows	
- /	93	<212> DNA	
	94	<213> Bos taurus	
	95	<220>	
	96	<221> CDS	
•	97	<222> (2) (124)	
	98	<221> variation	
	99	<222> (123)(124)	
	100	<pre><222> (123)(124) <223> N in positions 123 and 124 varies.</pre>	
	101	<220>	
	101	<221> variation	
	102	<222> (41)(41)	
		<222> (41)(41) <223> Xaa in position 41 is Ala.	
	104	<2235 Add In position 41 15 Aid. <400> 139	
	105	q aag toa gaa ott ogo att ago aaa gog toa otg got gat tot gga gaa	49
	106	Lys Ser Glu Leu Arg Ile Ser Lys Ala Ser Leu Ala Asp Ser Gly Glu	
	107	1 5 10 15	
	108	tat atg tgc aaa gtg atc agc aaa cta gga aat gac agt gcc tct gcc	97
	109	Tyr Met Cys Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala	٠,
	110	20 25 30	
	111	——————————————————————————————————————	124 (
>	112	aac atc acc att gtg gag tca aac gnn	124 (
	113	Asn Ile Thr Ile Val Glu Ser Asn Xaa 35 40	
	114	35 40	
	115	<210> 161 <211×141 /42 show	
>	116		
	117	<212> DNA	
	118	<213> Bos taurus	
	119	<220>	
	120	<221> CDS	
	121	<222> (2)(142)	
	122	<221> variation -	
	123	<222> (142)(142)	
	124	<223> N in position 142 varies.	
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	126	<221> variation	
	127	<222> (47)(47)	
	128	<223> Xaa in position 47 is Arg.	
	.129	<400> 161	
	130	a cat aac ctt ata gct gag cta agg aga aac aag gcc cac aga tcc aaa	49
	131	His Asn Leu Ile Ala Glu Leu Arg Arg Asn Lys Ala His Arg Ser Lys	
	132	1 5 10 15	
	133	tgc atg cag atc cag ctt tcc gca act cat ctt aga gct tct tcc att	97
	134	Cys Met Gln Ile Gln Leu Ser Ala Thr His Leu Arg Ala Ser Ser Ile	
	135	20 25 30 ccc cat tgg gct tca ttc tct aag acc cct tgg cct tta gga agn	142

Use of m and/or Xnn have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xan.

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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/734,592

DATE: 01/25/1999

TIME: 17:10:33

Input Set: H734592.RAW

Pro His Trp Ala Ser Phe Ser Lys Thr Pro Trp Pro Leu Gly Xaa

138 35 40 45

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VERIFICATION SUMMARY PATENT APPLICATION US/08/734,592

DATE: 01/25/1999 TIME: 17:10:33

Input Set: H734592.RAW

Line ?	Error/Warning	Original Text
28 E	Input 559, Calc# Bases 561 differ	<211> 559
51 W	"N" or "Xaa" used: Feature required	ccageggege gecageagga gecaeeeege gagnegtg
61 W	"N" or "Xaa" used: Feature required	aag aag ccc gtg ccc gcg gct ggc ggc ccg a
65 E	Input 178, Calc# Bases 179 differ	<211> 178
88 W	"N" or "Xaa" used: Feature required	aaa cca caa aac atc aag ata cag aaa agg c
92 E	Input 122, Calc# Bases 124 differ	<211> 122
112 W	"N" or "Xaa" used: Feature required	aac atc acc att gtg gag tca aac gnn
116 E	Input 141, Calc# Bases 142 differ	<211> 141
.136 W	"N" or "Xaa" used: Feature required	ccc cat tgg gct tca ttc tct aag acc cct t